

**COMPUTER SCIENCE HIGHER LEVEL, INTERNATIONAL BACCALAUREATE**  
4584 (COMPSCI H IB)

*Computer Science Higher Level, International Baccalaureate* guides students through problem solving strategies and definitions to the construction of algorithms to create solutions, thereby developing skills of logic and analytical thinking. The common core includes: systems life cycle and software development, program construction in Java, computing system fundamentals, a case study, and a program dossier. Additional material may include computer mathematics and logic, abstract data structure and algorithms, further system fundamentals, file organization, and an extended case study.

- Recommended Grade Level: Grades 11-12
- Credits: 4 semester course, 1 credit per semester
- Counts as a Mathematics Course for the International Baccalaureate diploma or as an Elective or Directed Elective for any diploma
- A Career Academic Sequence, Career-Technical program or Flex Credit course
- Career Clusters: This course may benefit students for career pathways in several career clusters. It is a recommended component for several career pathways in the Information Technology and Science, Technology, Engineering & Mathematics clusters
- Career pathway information: <http://www.doe.in.gov/careerpathways>